

IN THE CLAIMS

Please change "Claims" to ---What is claimed is:---

Please amend claims 1-6, as follows, with a marked-up copy of the amended claims being included in an Appendix attached to this amendment:

1. (Amended) A process for drying, separating, classifying, and decomposing waste products from at least one of a waste degassing and gasification process, comprising introducing solid waste products and waste gases wholly or partially in a funnel-shaped lower part of a shaft-like chamber, and at least one of simultaneously and subsequently introducing air and the waste gases from the degassing and/or gasification process separately into the chamber from below under pressure, the air is introduced into the chamber substantially axially and the waste gases are introduced into the chamber substantially tangentially, resulting in a rotationally symmetrical, fountaining eddying of the solid and gaseous substances in the chamber, and, subsequently or during continuous processing, dried, separated, classified, and substantially decomposed products are downwardly discharged from the chamber.

2. (Amended) The process according to Claim 1, wherein the recoverable waste products comprise coke, ash, hydrocarbons, CO₂, CO, H₂, H₂O.

3. (Amended) The process according to Claim 1, wherein the air is introduced in a truncated-cone-shaped floor of the chamber axially through a round, double-walled part of a discharge shaft.

4. (Amended) The process according to Claim 1, wherein the air is at least one of preheated and introduced into the chamber under a pressure of 6-8 kPa.

5. (Amended) The process according to Claim 1, wherein the waste gases are introduced tangentially through openings in the funnel-shaped part of the chamber so that the gases encounter the introduced air in an area of the solids.

6. (Amended) The process according to Claim 1, wherein the waste gases are introduced into the chamber under a pressure of 6-8 kPa.

Please add claims 7-17, as follows:

---7. The process according to Claim 2, wherein the air is introduced in a truncated-cone-shaped floor of the chamber axially through a round, double-walled part of a discharge shaft.

8. The process according to Claim 2, wherein the air is at least one of preheated and introduced into the chamber under a pressure of 6-8 kPa.

9. The process according to Claim 3, wherein the air is at least one of preheated and introduced into the chamber under a pressure of 6-8 kPa.

10. The process according to Claim 2, wherein the waste gases are introduced tangentially through openings in the funnel-shaped part of the chamber so that the gases encounter the introduced air in an area of the solids.

11. The process according to Claim 3, wherein the waste gases are introduced tangentially through openings in the funnel-shaped part of the chamber so that the gases encounter the introduced air in an area of the solids.